

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F21V21/18 A47G7/04 B65H75/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F21V A47G B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 187 996 A (EHRlich SOL) 12 February 1980 (1980-02-12) column 2, line 17 - column 3, line 37; figures 1,4,7,8	1,10,12, 14-28
X	DE 346 719 C (ANDREAS FOERG) 6 January 1922 (1922-01-06) figures 1,2	1,10,12, 14-27 2-9
Y	EP 0 483 069 A (OEKOPACK AG) 29 April 1992 (1992-04-29) figures 1,2	2-9
X	DE 39 048 C (SCHMITT-MANDERBACH) 21 September 1886 (1886-09-21) page 1, column 2, line 15 - page 2, column 2, line 7; figures 1a,3	1,10,12, 14-27
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

11 November 2004

Date of mailing of the international search report

26/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Kising, A

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 33 23 716 A (FURUYA NORIO ; TAJIMA INDUSTRY CO LTD (JP)) 10 May 1984 (1984-05-10) figures 2,3 -----	1,10-14, 28
A	BE 795 454 A (UGGERI REMO) 29 May 1973 (1973-05-29) figure 1 -----	1,23,24
A	GB 616 556 A (EUGENE LEON PIERRE MOURIES) 24 January 1949 (1949-01-24) figures 1,4 -----	1,23,24

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4187996	A	12-02-1980	NONE	
DE 346719	C	06-01-1922	NONE	
EP 0483069	A	29-04-1992	CH 683165 A5 AT 123714 T DE 9101315 U1 DE 59105705 D1 EP 0483069 A2	31-01-1994 15-06-1995 25-04-1991 20-07-1995 29-04-1992
DE 39048	C		NONE	
DE 3323716	A	10-05-1984	JP 59070565 U JP 61022544 Y2 JP 59070566 U JP 61022545 Y2 DE 3323716 A1 FR 2535829 A1 GB 2132172 A	14-05-1984 07-07-1986 14-05-1984 07-07-1986 10-05-1984 11-05-1984 04-07-1984
BE 795454	A	29-05-1973	IT 947605 B IT 1045607 B BE 795454 A1 ES 188765 Y	30-05-1973 10-06-1980 29-05-1973 16-09-1974
GB 616556	A	24-01-1949	FR 999311 A	29-01-1952